

NON-PUBLIC?: N
ACCESSION #: 9104220069
LICENSEE EVENT REPORT (LER)

FACILITY NAME: Indian Point Unit 3 PAGE: 1 OF 3

DOCKET NUMBER: 05000286

TITLE: PLANT TRIP RESULTING FROM ELECTRICAL FAULT ON 345 KV
SYSTEM

EVENT DATE: 03/20/91 LER #: 91-004-00 REPORT DATE: 04/15/91

OTHER FACILITIES INVOLVED: DOCKET NO: 05000

OPERATING MODE: POWER LEVEL: 100

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR
SECTION:

50.73(a)(2)(iv)

LICENSEE CONTACT FOR THIS LER:

NAME: Vincent R. Coulehan TELEPHONE: (914) 736-8047

COMPONENT FAILURE DESCRIPTION:

CAUSE: SYSTEM: EL COMPONENT: FD MANUFACTURER: X999
REPORTABLE NPRDS: N

SUPPLEMENTAL REPORT EXPECTED:

ABSTRACT:

On March 20, 1991 with the reactor at 100 percent power, a unit trip was initiated as the result of an electrical fault on a 345 KV bus section, remote to the site. The fault isolation circuitry opened both generator output breakers and generated a plant trip via the generator lockout relays. The components affected were subsequently repaired and tested. The plant returned to service on March 22, 1991.

END OF ABSTRACT

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DESCRIPTION OF THE EVENT

On March 20, 1991 at 1915 hours, with the reactor at 100 percent power, a unit trip occurred. The trip occurred as the result of actuation of the

main generator lockout relays 86P and 86BU. Low-low steam generator (SG) water levels following the trip initiated an auto start of the three auxiliary feedwater (AFW) pumps. The plant was stabilized in the hot shutdown condition; all systems responded according to design.

INVESTIGATION OF THE EVENT

The tripping of the main generator lockout relays was caused by direct trip signal from the Buchanan substation. A potential transformer (X999) (FD) faulted in the Buchanan substation and was found to be the initiator of this event. The potential transformer failure created a ground fault on the 345KV system tripping open the Indian Point Number 3 main generator output breakers.

CAUSE OF THE EVENT

The cause of this event has been identified as an electrical fault.

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CORRECTIVE ACTIONS

The following actions were undertaken as the result of this incident:

1. All components on the 345KV affected by the failure were cleaned and inspected.
2. Testing of the 345KV breakers, disconnects and protection systems.
3. An evaluation of plant electrical equipment involved, main transformers, main generator, and station auxiliary transformers, was performed with satisfactory results.

ANALYSIS OF THE EVENT

This event is reportable by 10CFR50.73(a)(2)(iv). This event has been considered under the guidelines of the plant's FSAR and Technical Specifications. No safety concerns exist as the result of this event. A loss of electrical load/generator trip is an analyzed event in Chapter 4 of the FSAR.

SECURING FROM THE EVENT

The plant went critical on March 21, 1991 at 2043 hours and the generator synchronized to the 345KV system on 0507 hours on March 22, 1991. No

similar event involving a potential transformer has been reported in an LER to date.

ATTACHMENT 1 TO 9104220069 PAGE 1 OF 1

Indian Point 3
Nuclear Power Plant
P.O. Box 215
Buchanan, New York 10511

914 739.8200

New York Power
Authority

April 15, 1991
IP3-91-024

Docket No. 50-286
License No. DPR-64

Document Control Desk
Mail Station PI-137
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Sir:

The attached Licensee Event Report LER 91-004-00 is hereby submitted in accordance with the requirements of 10CFR50.73. This event is of the type defined in the requirement per 10CFR50.73(a)(2)(iv).

Very truly yours,

Joseph Russell
Resident Manager
Indian Point Three Nuclear Power Plant

VC/rj
Attachment

cc: Mr. Thomas T. Martin
Regional Administrator
Region I
U.S. Nuclear Regulatory Commission
475 Allendale Road

King of Prussia, Pennsylvania 19406

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